

## Grade 7 – Strand: Variable, Expressions and Equations

<b>Pre-Knowledge</b> What do you need to know to start learning this concept?	<b>Concept</b>	<b>Future Concepts</b> What future concepts can you learn once you understand this concept?	<b>Real World Connection</b> How does learning this connect connect to the real world in a meaningful?
<ul style="list-style-type: none"> <li>How to use graphs and tables, what rate is, how to calculate rate</li> </ul>	<ul style="list-style-type: none"> <li>Constant rates with initial conditions at 0</li> </ul>	<ul style="list-style-type: none"> <li>Acceleration (physics), how to solve equations of a line</li> </ul>	<ul style="list-style-type: none"> <li>Calculating speed of a car, calculating a cellphone bill etc.</li> </ul>
<ul style="list-style-type: none"> <li>How to solve a step 1 algebraic equation, how to use variables</li> </ul>	<ul style="list-style-type: none"> <li>Constant rates using algebraic equations</li> </ul>	<ul style="list-style-type: none"> <li>Create own equations, how to use equations in other subject areas</li> </ul>	<ul style="list-style-type: none"> <li>Calculations for planning events</li> </ul>
<ul style="list-style-type: none"> <li>How to write an algebraic expression, constant variables and non-constants, variable use</li> </ul>	<ul style="list-style-type: none"> <li>Translating word problems to equations</li> </ul>	<ul style="list-style-type: none"> <li>Solving more difficult word problems, optimization problems, calculus concepts</li> </ul>	<ul style="list-style-type: none"> <li>Taking what people are telling you and turn it into mathematical terms (ie. Sales person trying to explain how your monthly phone bill will be calculate)</li> </ul>
<ul style="list-style-type: none"> <li>What is a natural number, how to substitute, how to evaluate</li> </ul>	<ul style="list-style-type: none"> <li>Evaluating algebraic expressions (with natural numbers)</li> </ul>	<ul style="list-style-type: none"> <li>Checking solutions to more complicated equations</li> </ul>	<ul style="list-style-type: none"> <li>Figuring out how much they will get paid at the end of the work day</li> </ul>
<ul style="list-style-type: none"> <li>Variables, how to evaluate</li> </ul>	<ul style="list-style-type: none"> <li>Finding the general term of a pattern and evaluating</li> </ul>	<ul style="list-style-type: none"> <li>Learn about series and sequences</li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>